

CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
15 May 2003 (15.05.2003)

PCT

(10) International Publication Number
WO 2003/040947 A1

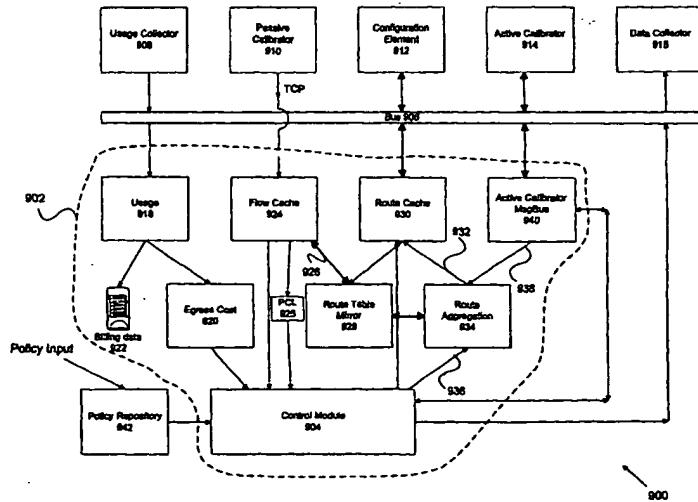
- (51) International Patent Classification⁷: **G06F 15/173**
- (21) International Application Number:
PCT/US2002/035488
- (22) International Filing Date:
4 November 2002 (04.11.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/350,186 2 November 2001 (02.11.2001) US
10/286,576 1 November 2002 (01.11.2002) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: DATA NETWORK CONTROLLER



(57) Abstract: The present invention provides for a system and method for data network control. Using a flow control system, embodiments of the present invention can analyze traffic flow volume and performance (910,924), incorporate usage, billing, and cost control data to yield an improved data network controller. Efficiency in data routing is improved while costs are decreased by enabling the selection of the optimal performance data route. Cost constraints and costs are minimized for an overall data load (908,918,922,920). Given a diverse set of cost structures for available transit providers, the overall system cost can be minimized by distributing traffic in a manner that takes advantage of the diverse billing structure and yet maintains acceptable performance levels. Systems and methods in accordance with embodiments of the present invention determine projected flow performance and projected

WO 2003/040947 A1



(48) Date of publication of this corrected version:

29 April 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(15) Information about Correction:

see PCT Gazette No. 18/2004 of 29 April 2004, Section II

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/35488

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/173

US CL : 709/224

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 709/224,225,221

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, IEE Online search terms: QOS, allocation, bandwidth, quality of service

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,047,326 A (KILKKI) 04 April 2000, column 9-17	1-21
Y	US 6,055,571 A (FULP et al.) 25 April 2000, column 7-13	1-21
Y	US 6,154,778 A (KOISTINEN et al.) 28 November 2000, column 9-11	1-21
A	US 5,724,513 A (BEN-NUN et al.) 03 March 1998	1-21
A	US 5,898,668 A (SHAFFER) 27 April 1999	1-21

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
*	Special categories of cited documents:	"T"	late, document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

06 January 2003 (06.01.2003)

Date of mailing of the international search report

13 FEB 2003

Name and mailing address of the ISA/US

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